



**AIR SAFETY
INVESTIGATION DEPARTMENT
TWIN- ENGINE ACCIDENT REPORT**

GENERAL INFORMATION		
ACCIDENT NUMBER	NTSB NUMBER	AIRCRAFT REGISTRATION
11013001	WPR11LA113	N64RJ
AIRCRAFT YEAR / MODEL	AIRCRAFT SERIES	SERIAL NUMBER
1969 / PA-30	Twin Comanche	30-1931
ACCIDENT DATE	ACCIDENT TIME	ACCIDENT LOCATION
01/30/2011	0720 PST	Big Bear City, CA
WRECKAGE EXAM DATE	EXAM LOCATION	
02/02/2011	Aircraft Recovery Service, Pearblossom, CA	
# OCCUPANTS	INJURIES	
1	1 Serious	
OWNER	OWNER ADDRESS	
Tower General Contractors, Inc.	[REDACTED]	
DOR: 05/06/2010	Sun Valley, CA 91352-2061	
OPERATOR	OPERATOR ADDRESS	
Owner/Pilot	[REDACTED]	
INSURER	INSURER ADDRESS	
Arnold & Arnold	[REDACTED]	
	San Diego, CA 92101	
CLAIM REPRESENTATIVE	CLAIM REPRESENTATIVE ADDRESS	
Charles W. (Bill) Arnold	[REDACTED]	
PHONE: [REDACTED]	San Diego, CA 92101	

RECOVERY COMPANY (IF ANY)	RECOVERY ADDRESS
Aircraft Recovery Services, Inc.	[REDACTED]
PHONE: [REDACTED]	Pearblossom, CA 93553-2188

INVESTIGATORS				
	NAME	OFFICE	PHONE	E-MAIL
NTSB	Patrick Jones	WPR	[REDACTED]	
FAA	Jon H. Weston	Riverside, CA		
PIPER	Charles R. Little	Chino Hills, CA		
LYC	Mark W. Platt	Van Nuys, CA		

OPERATIONS & WEATHER

FLIGHT PLANNING

DEPARTURE DATE/TIME 01/30/2011 @ 0715 PST AIRPORT Big Bear City, CA (L35)
 ACCIDENT DATE/TIME 01/30/2011 @ 0720 PST
 DESTINATION AIRPORT Pacoima, CA (WHP)
 FLIGHT PLAN FILED? VFR IFR NONE X U/K

WEATHER BRIEFING GIVEN TO PILOT? YES NO U/K X
 WHEN/WHERE U/K
 FORECAST U/K

WEATHER AT DEPARTURE VFR
 WEATHER AT ACCIDENT SITE VFR

ADDITIONAL DETAILED WEATHER INFORMATION IN SECTION 6? YES X NO

WHEN WAS AIRCRAFT FUELED LAST;
 BY WHOM/ WHERE/ AMOUNT/TYPE: Unknown.

COMMUNICATIONS

WAS A PROBLEM/EMERGENCY DECLARED BY THE PILOT? YES NO U/K X
 EXPLAIN Aircraft departed from uncontrolled airport.

REPORT WHAT YOU KNOW OF RADIO TRANSMISSIONS Unknown.

WAS RADIO COMMUNICATION/ATC PACKAGE ORDERED BY NTSB? YES NO X

WAS FOIA REQUEST SENT FOR ATC PACKAGE? YES NO X

OPERATIONS NOTES

On January 30, 2011, at about 0720 Pacific Standard Time (PST), a 1969 PA-30 Twin Comanche registered as N64RJ impacted between two houses shortly after departing from the Big Bear Airport (L35) in Big Bear City, CA. The impact destroyed the aircraft. The Pilot, Jose Natividad Flores age 55 of Los Angeles, CA and sole occupant received serious injuries.



The aircraft departed Big Bear Airport (L35) at about 0715 PST and was en route to the Whiteman Airport (WHP) in Pacoima, CA on a personal flight. The accident site was about ¼ mile east of the Big Bear Airport. Visual meteorological conditions (VMC) existed at the time of the accident.

The NTSB reported that the pilot had limited recall of the accident flight. The pilot stated that he departed to the west. After departure he reported making a left crosswind turn when the right engine lost power. He then continued downwind making a left base to final. He stated that he saw the end

of the runway while on final but had no recall beyond that.

A mechanic at Exodus Air Service Corporation reported to the NTSB that the pilot had called him the day prior to the accident and reported that the right engine had some problems. The mechanic told the pilot to not fly the aircraft until a mechanic looked at it. The pilot told the mechanic that there were no mechanics in Big Bear. The mechanic suggested that he run the engines and make sure they developed full power, if not then he told the pilot not to fly the airplane. The pilot was to call him with the results of the engine run but he never heard back from the pilot.

WEIGHT & BALANCE

ITEM	WT. (LBS.)	ARM (IN.)	MOMENT (IN. LBS.)
BASIC AIRPLANE	2658.07	82.99	W&B dated 11/20/99 220603.29
PILOT'S SEAT	185	85.2	15762
COPILOT'S SEAT	0	85.2	Seat not occupied 0.00
SEAT NO. 3	0	120.5	Seat not occupied 0.00
SEAT NO. 4	0	120.5	Seat not occupied 0.00
SEAT NO. 5	0	148.0	Seat not occupied 0.00
SEAT NO. 6	0	148.0	Seat not occupied 0.00
SEAT NO. 7 (JUMP)	0	N/A	Not installed 0.00
FUEL GAL. INBRD.	324	90.0	54.0 gallons 29160
FUEL GAL. OUTBRD.	180	95.0	30 gallons 17100
FUEL GAL. TIP	0	N/A	Not installed 0.00
BAGGAGE FORWARD	0	N/A	Not installed 0.00
BAGGAGE AFT	0	142.0	None observed. 0.00
TOTAL WEIGHT	3347.07	CG 84.4396	TOTAL MOMENT 282625.29

AIRCRAFT MAX. GROSS WEIGHT 3,600.0 LBS. AIRCRAFT C.G. RANGE +81" to +92"

DID PILOT PERFORM A WEIGHT AND BALANCE CHECK? YES ☐ NO ☐ U/K ☒

WAS AIRCRAFT BEING OPERATED WITHIN ITS LIMITATIONS?

C.G. YES ☒ NO ☐ U/K ☐
WEIGHT YES ☒ NO ☐ U/K ☐

SOURCE OF WEIGHT & BALANCE INFORMATION

Weight & Balance data sheet dated 11/20/99. Fuel calculated as full. Pilot's medical weight.

WRECKAGE DOCUMENTATION

COMPONENT CONDITION

D - DESTROYED
B - BROKEN
N - NO DAMAGE
NOTE DIRECTION OF FAILURE

F - FIRE DAMAGE
I - IMPACT DAMAGE
S - SEPARATED

U/K - UNKNOWN
N/A - NOT APPLICABLE
N/O - NOT OBTAINABLE
N/L - NOT LOCATED

LEFT WING

ATTACHMENT FWD	Cut by retriever.
MAIN	Cut by retriever.
AFT	Cut by retriever.
LEFT STALL STRIP(S)	N/L
LEFT FUEL TANK(S)	I
LEFT FUEL FILLER NECK	N
RESTRICTOR(S)	
LEFT AILERON	D, I
BALANCE WEIGHT	N
CONTROL CABLES	N
STOP ASSEMBLY	U/K
LEFT FLAP	I
POSITION	N/O
MECHANISM	I
LEFT MAIN GEAR COND.	I
POSITION	Extended

RIGHT WING

ATTACHMENT FWD	Cut by retriever.
MAIN	Cut by retriever.
AFT	Cut by retriever.
RIGHT STALL STRIP(S)	I
RIGHT FUEL TANK(S)	I
RIGHT FUEL FILLER NECK	N
RESTRICTOR(S)	
RIGHT AILERON	I
BALANCE WEIGHT	N
CONTROL CABLES	N
STOP ASSEMBLY	U/K
RIGHT FLAP	I
POSITION	N/O
MECHANISM	I
RIGHT MAIN GEAR COND.	I
POSITION	Extended

TAIL SURFACES

VERT. STABILIZER	I
RUDDER	I
BALANCE WEIGHT	N
CONTROL CABLES	N
STOP ASSEMBLY	U/K
HORIZ. STAB.	I
BALANCE WEIGHT(S)	N
CONTROL CABLES	N
STOP ASSEMBLY	U/K

FUSELAGE

FWD CABIN DOOR	N
AFT CABIN DOOR	N/A
FWD BAGGAGE DOOR	N/A
AFT BAGGAGE DOOR	N
NOSE SECTION/COWL	D, I
HYDRAULIC PUMP	N/A
BATTERY	S, I
NOSE GEAR/TAIL WHEEL	I
POSITION	N/O
EMERGENCY EXIT	U/K

TRIM TAB POSITIONS

	SHAFT		LEADING EDGE	TAB LEFT/RIGHT
	EXTENSION	THREADS	TRAILING EDGE	UP/DOWN
RUDDER	U/K	U/K		
HORIZONTAL STAB	U/K	U/K		
AILERON	N/A	N/A		

COCKPIT DOCUMENTATION

LT. THROTTLE POSITION	1/2" from full forward.	LT. FUEL FLOW	Digital
RT. THROTTLE POSITION	Full forward.	RT. FUEL FLOW	Digital
LT. MIXTURE POSITION	1/2" from full rich.	LT. FUEL PRESS	N/A
RT. MIXTURE POSITION	Full rich.	RT. FUEL PRESS	N/A
LT. PROP CONTROL POS.	1" from full increase.	LT. OIL PRESS	Zero
RT. PROP CONTROL POS.	1/2" from full increase.	RT. OIL PRESS	Zero
LT. CARB HEAT/ALT AIR	Closed	LT. OIL TEMP	Zero
RT. CARB HEAT/ALT AIR	Closed	RT. OIL TEMP	Zero
LT. COWL FLAP(S)	Open	LT. CYL. HD. TEMP	Off low scale.
RT. COWL FLAP(S)	Closed	RT. CYL. HD. TEMP	Off low scale.
LT. EGT POSITION	Digital	LT. AMPMETER	Zero
RT. EGT POSITION	Digital	RT. AMPMETER	Zero
LT. MANIFOLD PRESSURE	28"		
RT. MANIFOLD PRESSURE	27"	VOLTMETER	Digital

INSTRUMENTS

LT. CLOCK	4:21:34	FUEL QUAN.	LM: Zero	RM: Zero
RT. CLOCK	N/A	LT. TIP:	N/A	RT. TIP: N/A
LT. AIRSPEED	I, needle missing.			
RT. AIRSPEED	N/A			
LT. RATE OF CLIMB	+150	MASTER SWITCH	D, I	
RT. RATE OF CLIMB	N/A			
LT. ALTIMETER	7,450 feet	LT. ALTERNATOR	On	
RT. ALTIMETER	N/A	RT. ALTERNATOR	On	
LT. KOLLSMAN	30.09	LT. ENG. MAG LT	On	RT On
RT. KOLLSMAN	N/A	RT. ENG. MAG LT	On	RT On
LT. DG/HSI	N	LT. FUEL PUMP	On	
RT. DG/HSI	N/A	RT. FUEL PUMP	On	
LT. ARTIF. HORIZ./FD	N, LW down 40°, NS down 30°			
RT. ARTIF. HORIZ./FD	N/A	CIRCUIT BREAKERS	N. See narrative on page 9 for additional information.	
LT. TURN INDICATOR	LW: Low; Ball right in race.			
RT. TURN INDICATOR	N/A	INSTRUMENT LIGHTS	N/L	
SUCTION/PRESSURE	Zero	NAV. LIGHTS	N/L	
COMPASS	090°	ANTI-COLLIS. LIGHT(S)	Off	
RADAR ALTITUDE	N/A	LANDING LIGHTS	Left: Off; Right: On	
HOBBS METER	N/O			
TACHOMETER	N	INDICATION: RPM	Zero	HOURS 2167.4
TACHOMETER	N	INDICATION: RPM	Zero	HOURS 2165.9
CONTROL WHEEL/STICK	I	ELEVATOR TRIM IND.	I, Full nose down.	
CONTROL COLUMN/CABLES	U/K	AILERON TRIM IND.	N/L	
RUDDER PEDAL ASSY	I	RUDDER TRIM IND.	Neutral	
FLAP HANDLE/SWITCH	Switch; Up			
CONDITION/POSITION				
FLAP INDICATOR	Up	LT. FUEL SELECTOR POS.	Selector: Aux; Toggle: Aux	
OXYGEN CONTROL	N/L	RT. FUEL SELECTOR POS.	Selector: Main; Toggle: Aux	

LANDING GEAR SWITCH	<u>Down</u>	CROSSFEED POSITION	<u>Off</u>
LANDING GEAR INDICATOR	<u>Lights</u>	LT. FIREWALL SHUTOFF	<u>N/A</u>
EMER. GEAR CONTROL	<u>Stowed and secure.</u>	RT. FIREWALL SHUTOFF	<u>N/A</u>
REMOTE E.L.T. SWITCH	<u>N/L</u>	ENGINE PRIMER(S)	<u>N/A</u>

ENVIRONMENTAL

CABIN HEAT	<u>Off</u>
VENT BLOWER	<u>N/L</u>
AIR CONDITIONING	<u>N/A</u>
CABIN DEFROSTER	<u>Off</u>
FRESH AIR INTAKE	<u>U/K</u>

ICE PROTECTION

PITOT HEAT	<u>Off</u>
STALL WRN HEAT	<u>N/L</u>
PROP HEAT	<u>Off</u>
WINDSHIELD HEAT	<u>N/A</u>
DE-ICE BOOTS	<u>N/A</u>

EMERGENCY LOCATION TRANSMITTER INSTALLED? YES X NO U/K

MODEL/TYPE N/L S/N N/L BATTERY DATE N/L

DID E.L.T. FUNCTION? YES NO U/K X

DID IT HELP LOCATE AIRCRAFT? YES NO X U/K

AVIONICS

AUTOPILOT MANUFACTURER Piper MODEL Altimatic IIIB S/N U/K

AUTOPILOT CONTROL BOX	<u>Off</u>	BRIDLE CABLES/SERVOS	
HEADING BUG POSITION	<u>310°</u>	ROLL	<u>U/K</u>
ALTITUDE PRESELECT	<u>11,500</u>	PITCH	<u>U/K</u>
COUPLER SWITCH POSITION	<u>HDG</u>	YAW	<u>U/K</u>
		TRIM	<u>U/K</u>

AVIONICS MASTER SWITCH CONDITION/POSITION On

AUDIO SELECTOR PANEL MODEL King KMA 24 CONDITION N
TRANSMIT SELECT POSITION Com 1

AUDIO SWITCH POSITIONS

COM 1	<u>Out</u>	COM 2	<u>Out</u>	NAV 1	<u>Out</u>	NAV 2	<u>Out</u>
DME	<u>Out</u>	MKR	<u>Out</u>	ADF	<u>Out</u>	AUTO	<u>Phone</u>

RADIO FREQUENCIES

COM 1	<u>Digital</u>	COM 2	<u>Digital</u>	NAV 1	<u>Digital</u>	NAV 2	<u>Digital</u>
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NAV 1 INFORMATION

OBS POSITION	<u>285°</u>	NEEDLE POSITION	<u>130°</u>	FLAG	<u>Visible</u>
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NAV 2 INFORMATION

OBS POSITION	<u>310°</u>	NEEDLE POSITION	<u>310°</u>	FLAG	<u>Visible</u>
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TRANSPONDER SWITCH POSITION ALT CODE 1200

GPS SYSTEM MODEL Apollo 2001 LAST DATA UPDATE U/K
SWITCH POSITIONS OR DISPLAY INFORMATION Placard on panel states "GPS For VFR Use Only"

MISCELLANEOUS AVIONICS OR NON-STANDARD ELECTRICAL EQUIPMENT:
BFG Stormscope. PM1000 II Intercom. Davtron M655 Digital Indicator.

GLASS PANEL DISPLAYS

MANUFACTURER	<u>N/A</u>	MODEL	<u>N/A</u>
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	SERIAL NUMBER	CONDITION
PILOT PFD		
MFD		
CO-PILOT PFD		
D.A.U.		

DATA EXTRACTED?	<u>YES</u>	<u>NO</u>	BY WHO	
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REMARKS: _____



The fuselage, empennage and vertical tail section remained intact.

The aircraft as first viewed was laid out with the major sections of the aircraft in their near normal relationship with each other. The aircraft had been partially disassembled during the recovery process. Both the left and right wing assemblies had been cut off the fuselage at the root area. The left engine was separated from the nacelle. The right engine remained attached to the nacelle but the nacelle section with the AUX fuel tank were separated from the wing. The left and right horizontal stabilator had been disassembled from the tail empennage section.

Left Wing



The left wing exhibited extensive impact damage outboard of the engine nacelle. The wing was partially broken outboard of the flap surface and was mostly destroyed. The flap surface remained attached to the wing and was in the retracted position. The aileron remained attached by the inboard hinge only and was folded back under the inboard wing surface. The landing gear remained attached. The gear retract system was cut by the retriever and the gear was up in the wheel well but was free to extend by hand.

The left main fuel tank contained fuel on site and was captured by the retriever during the recovery process. The left auxiliary bladder style tank was not observed. The left wing tip tank was destroyed by impact.

Right Wing



The right wing exhibited aft crushing along its entire leading edge from the nacelle area to the tip. Both the aileron and flap surface remained attached to the wing. The engine nacelle, with attached engine separated from the wing. The landing gear remained attached and was in the down and locked position.

Right main fuel tank was not breached. The retriever reported that about 5 gallons of fuel was defueled from the tank during recovery process. The right auxiliary bladder style fuel tank has a small hole.

The right wing tip tank was destroyed by impact.

Empennage



The empennage section was mostly intact. Skin wrinkling was present on the left side aft of the cabin bulkhead and forward of the vertical surface. The vertical and rudder surface remained attached and were mostly undamaged. The left and right horizontal stabilizer were removed by the retriever during the recovery process but appeared mostly undamaged.

Fuselage



According to the on scene FAA inspector, continuity of the flight control systems was established on site to all movable flight controls surfaces up to the forward cockpit section prior to the aircraft being disassembled during the recovery process.

The forward fuselage nose section and forward instrument panel section sustained extensive ground impact damage. The nose section exhibited extensive crushing signatures to the left side skins forward of the firewall section. The forward cabin

and instrument panel exhibited crushing damage around the entire enclosure.

The landing gear switch was in the gear down position. The landing gear retraction system indicated that the gear was in the down position. The nose landing gear remained attached but had sustained impact damage and was destroyed. The flap transmission assembly was found in the flaps retracted (up) position.

The left engine fuel selector handle was found in the left auxiliary fuel tank detent. The right engine fuel selector handle was found in the right main fuel tank detent. A placard on the fuel selector lever indicates that the AUX tank is to be used in level flight only. Dry, blue colored stains were present on the top side of the both fuel valves.

Utilizing an ohm meter, the electrical continuity of the left and right engine magneto "P" leads of both engines from the magneto switches to where the wires were cut at the wing root area were checked and found to function normally. The wire numbers for the left engine were identified as P23A (Right Magneto) and P24A (Left Magneto). The wire numbers for the right engine were identified as P26A (Right Magneto) and P27A (Left Magneto).

Both fuel gascolator bowls were removed and visually examined. Both bowls contained clear and bright blue colored fuel. Using water finding paste, no evidence of water existed. Both bowls contained minor dirt sediment. Both fuel bowl screens were clear.